

15. $8x + 1 \geq 2x + 13$

16. $5x - 4 < 2x + 5$

17. $7 - 2x \geq 1$

18. $3 - 5x \leq 18$

19. $4x - 2 < x - 11$

20. $6x + 5 \geq x - 10$

Solve. THEN GRAPH THE SOLUTION ON A NUMBER LINE.

21. $x + 7 \geq 4x - 8$

22. $3x + 1 \leq 7x - 15$

23. $6 - 2(x - 4) \leq 2x + 10$

24. $4(2x - 1) > 3x - 2(3x - 5)$

25. $2(1 - 3x) - 4 > 10 + 3(1 - x)$

26. $2 - 5(x + 1) \geq 3(x - 1) - 8$

27. $\frac{3}{5}x - 2 < \frac{3}{10} - x$

28. $\frac{5}{6}x - \frac{1}{6} \leq x - 4$

29. $\frac{1}{3}x - \frac{3}{2} \geq \frac{7}{6} - \frac{2}{3}x$

30. $\frac{7}{12}x - \frac{3}{2} < \frac{2}{3}x + \frac{5}{6}$

31. $\frac{1}{2}x - \frac{3}{4} > \frac{7}{4}x - 2$

32. $\frac{2-x}{4} - \frac{3}{8} \geq \frac{2}{5}x$

33. $2 - 2(7 - 2x) < 3(3 - x)$

34. $3 + 2(x + 5) \geq x + 5(x + 1) + 1$

Solve. Write the solution set in interval notation.

35. $3x < 6$ and $x + 2 > 1$

36. $x - 3 \leq 1$ and $2x \geq -4$

37. $x + 2 \geq 5$ or $3x \leq 3$

38. $2x < 6$ or $x - 4 > 1$

39. $-2x > -8$ and $-3x < 6$

40. $\frac{1}{2}x > -2$ and $5x < 10$

41. $\frac{1}{3}x < -1$ or $2x > 0$

42. $\frac{2}{3}x > 4$ or $2x < -8$

43. $x + 4 \geq 5$ and $2x \geq 6$

44. $3x < -9$ and $x - 2 < 2$

45. $-5x > 10$ and $x + 1 > 6$

46. $7x < 14$ and $1 - x < 4$

47. $2x - 3 > 1$ and $3x - 1 < 2$

48. $4x + 1 < 5$ and $4x + 7 > -1$

49. $3x + 7 < 10$ or $2x - 1 > 5$

50. $6x - 2 < -14$ or $5x + 1 > 11$

Solve. Write the solution set in set-builder notation.

51. $-5 < 3x + 4 < 16$

52. $5 < 4x - 3 < 21$

53. $0 < 2x - 6 < 4$

54. $-2 < 3x + 7 < 1$

55. $4x - 1 > 11$ or $4x - 1 \leq -11$

56. $3x - 5 > 10$ or $3x - 5 < -10$